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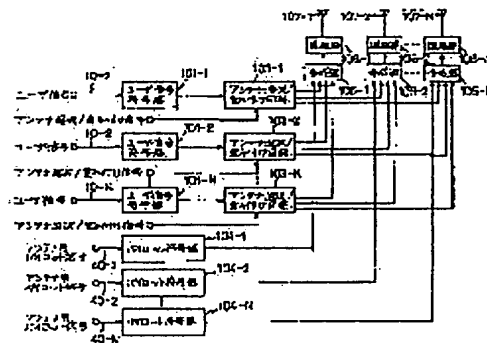
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## (54) FDD/CDMA TRANSMISSION RECEPTION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the diversity effect and the interference reduction effect without employing of plural antennas and an interference cancellor for a mobile station by realizing transmission diversity using closed loop control by a transmitter and a receiver.

SOLUTION: User signal coders 101-1-101-k in a transmitter applies spread processing to user signals 10-1-10-k of k-sets of stations by codes assigned specifically to each user. Antenna selection/weighting circuits 103-1-103-k use an antenna selection signal or a weighting signal obtained by each user to select a transmission antenna of each user among N-sets of antennas 107-1-107-N or provide weighting the signal from each user and send the result to the antennas 107-1-107-N. A receiver measures the reception power of each pilot signal by differentiating the spread signal of the pilot signal from each antenna in this way to select a transmission antenna providing an excellent transmission characteristic thereby realizing the transmission diversity.



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